**Computer Networks and Operating Systems**

Project: Amazon Data Center in Iasi

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**Beneficiary Report**

* Build-up of the Intranet Network in the data center.
* Number of employees: 200
* Organizational departments: marketing, HR, PRO, Accounting, Finance, IT
* Building outline: 6 storey building(2 floors occupied by Amazon), 1500 square meter
* Network class: class C
* Network structure: each department will have its own individual server for the employees.
* Future plans: There will be more networking space for new employees and advanced networking equipment.

**Bill of Materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Components** | **Quantity** | **Unit Cost(lei)** | **Total Cost(lei)** |
| Cable Tester | 2 | 34 | 68 |
| Crimping Tool | 2 | 29 | 58 |
| RJ-45 (100 pcs) | 2 | 26.58 | 53.16 |
| Racks (600\*600) | 1 | 2800 | 2800 |
| Cooling Fan | 2 | 470 | 940 |
| Server Rack Extension | 2 | 150 | 300 |
| HPE Proliant DL380 Gen10 server | 4 | 11500 | 46000 |
| D-Link switch(DGS-3120) | 6 | 6700 | 40200 |
| UTP Cat 5e(305m) | 2 | 140 | 280 |
| STP Cat 5e(305m) | 1 | 900 | 900 |
| Windows Server 2016 | 1 | 2000 | 2000 |
| TP-Link TL-WA7210N PoE | 8 | 270 | 2160 |
| HP Pavillion 24-X0015nq All-in-One | 180 | 3900 | 702000 |
| Trunking cable/conduit | 15meters | 6 lei/meter | 90 |
| HP Laptop-15s-Fq1000nq | 20 | 3200 | 64000 |
| Patch Panel | 6 | 200 | 1200 |
| Zip tie (100 pcs) | 2 | 20 | 40 |
| Extension (6 plugs) | 30 | 70 | 2100 |
| Canon i-sensys LBP352x laser printer | 4 | 5000 | 20000 |
| Electrical Cable | 300 meters | 300 | 90000 |
| Wall socket | 20 | 20 | 400 |
| UPS (6kW) | 1 | 6000 | 6000 |
| ***Total cost of all the components*** |  |  | **981589.16** |